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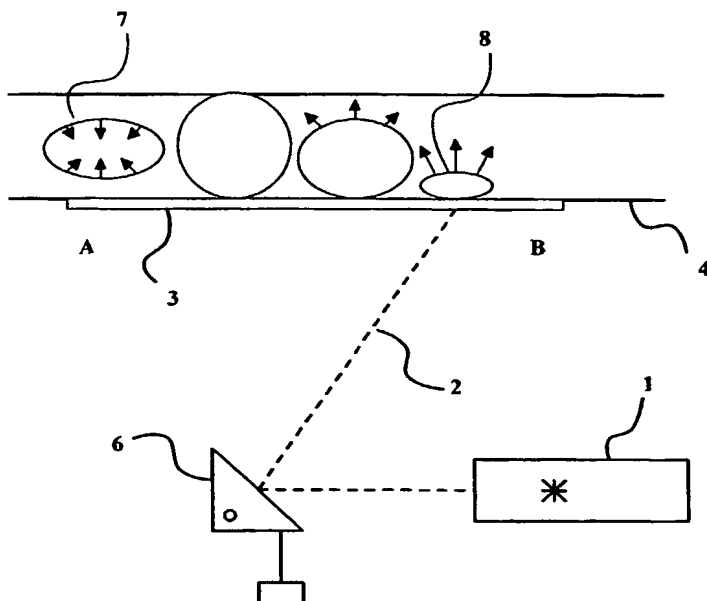
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- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MICRO LIQUID HANDLING DEVICE AND METHODS FOR USING IT



(57) Abstract: The invention makes available methods and devices for handling liquids in micro channel systems by means of bubbles generated by a movable light beam. In particular the devices relate to pumps, valves, mixers and thermal reactors in micro channel systems and the combination of these devices into larger systems. The methods relate the preparation and operation of the devices.

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F04B19/24 //F04B19/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 186 001 A (SHIFLETT GEOFFREY R ET AL) 16 February 1993 (1993-02-16) the whole document	1
A	US 5 649 423 A (SNIEGOWSKI JEFFRY J) 22 July 1997 (1997-07-22) the whole document	1
A	US 6 071 081 A (SHIRAISHI SADASUMI) 6 June 2000 (2000-06-06) the whole document	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International

Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5186001	A	16-02-1993	US 5367878 A	29-11-1994
US 5649423	A	22-07-1997	NONE	
US 6071081	A	06-06-2000	JP 5240155 A	17-09-1993